The Results of Seismic-Acoustic Exploration of the Bottom of the Japan Sea

20-119-3-52/65

depth of 100-600 m. 2 pairs of hodographs directed opposite (vstrechnyy) to each other were constructed from the data on the entering of refracted waves and data on the limit velocity of the sound as well as on the depth of the refracting boundaries of the deeper seated ground layers. 2 layers with considerably different limit velocities in both cross sections could be distinguished. The velocities differed in both cross sections. This difference seems to be due to measuring. errors and to the fact that the actual geological conditions did not agree with the idealized assumptions the computation was based on. Apparently a basaltic layer of a thickness of from 6-7 to 7-8 m is stratified under the loose deposit. As it seems to the authors the results prove the fact that a considerable mass of loose ground deposits exists in the western part of the Ya= ponskoye sea which is not separated by distinct boundaries. The change of the thickness of this layer is obviously connected with the supply of deposits from the continent and with the relief of the subjacent

Card 3/4

ANDREYEVA, I.B.: LISITSYN, A.P.: UD:INTSEV, G.B.: NEPROCHNOV, YU.P.: SYSCIEV, N.N.: MIKKALTSEV, I.YE.

"Results of Seismo-Acoustic Investigations of the Ocean Bottom"

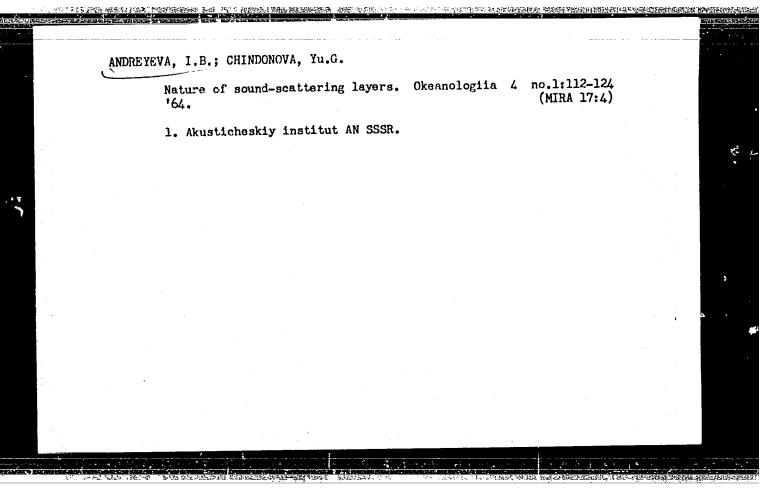
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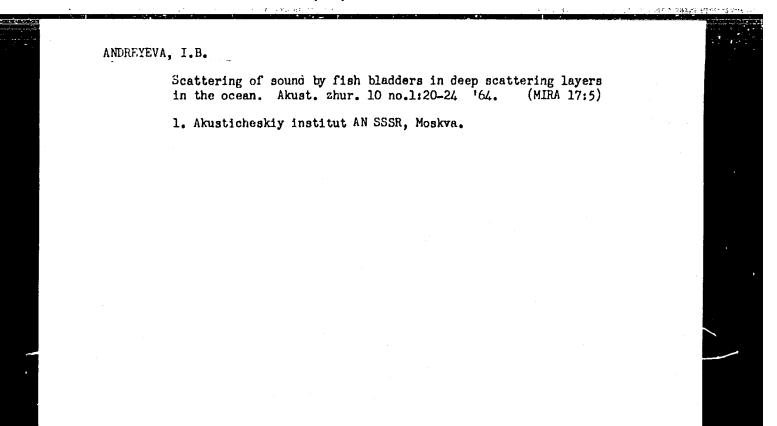
a paper presented at the international oceanographic congress, 31 aug--118ep 59

New York

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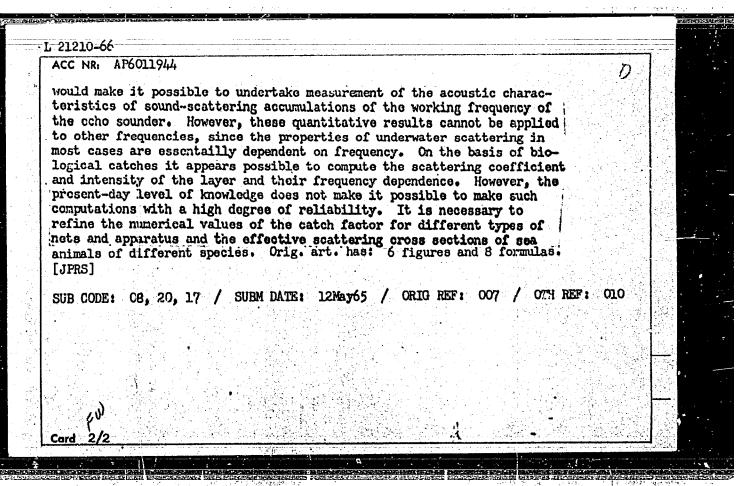
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:	•	n, 1950.	izd-vo AN SSCR, 1950. Doklady Bovetskikh	Editorial Board: F. L. Bezrukuv, Resp. Ed.; A. V. Zhifago, V. Zankovich and G. B. Udintsev; Ed. of Publishing Houses: V. Sheyman; Tech. Ed.; V. Karpov.	This hook is intended for geologists and occanographers.	TRACE: The book sontains 18 articles representing the reports given by Soriet geologies at the 21ct. International Goologies Googress. Individual articles deal with the bottom topography sedimentation, and tectonics of cocens (Western Pacific and Southern Indian), as well as the Geocorphology and rectonics of the Black and Cappien Seas and Soriet soctors of the Palito. An Registan refuse seconganies accompanies and marticle. No personalities	Stronger, N. N., I. To. Michalitace, G. B. Udintsev, I. B. Andrews, A. P. Matteys, and My. I. Roycochnoy. Results of Schmic-chouste Investigations of the Earth's Grust Under Seas and Cooms	Saidors, Eh. M. Stratigraphy of Sediments and the Paleogeography of the Mortineasern Proific and the Par Erstern Seas of the USSR According to Sea-Dottom Persannifers	hern	on Con-	Sottom Geomorphology	Relief	Margine1			-tro	on the	ih. Some	Budanov, V. I., A. S. Ionin, P. A. Kaplin, and V. S. Medvedov Recent Vertical Movements of Seashores in the Soviet Union	on Recent				
		Copenhagen, 1950.	, Izd-vo Doklady	1. J A. W.	plate and	Thernat Internat th the bot (Western Thology a	Udintsev, rochnoy, rth's Crus	sand the	Laitern, A. 2. Formation of Sediments in the Southern Failie and Indian Oceans	Bottom Sedimentation	Sottom Ge	Soloyev V. P., L. S. Enlakova, and G. V. Arnbova. Recent Ploor Biructure of the Southern Casplan Sca		Sea	lan Ses	Study of the Diagenesis of Some Marine	Zenkowich, V. P., O. K. Loont), ve. and Ye. N. Nevessich, Influence of the Emerator Fost-Checkal Transpression on Development of the Coastal Zone of Soviet Seas	Aybulator, N. A., V. E. Poldyrev, and V. P. Zonkovich. Now Data to Sequent Streems Along Shores	and V. S the Sovie					
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		FRANK I BOOK KATU Geological Congress.	ine Geolo printed.	Berrukov Udintsev; V. Karpo	Intended	tains 18 ogists at larticle fectonics well as m Sens a	First and L	trichy of	iton of Se	Belov.	Codebarov, V. P., and Tu. P. Reprochnov. and Tectonic Problems of the Black Sea	Eulakova,	Jecent She	logy of th	ents in ti	of the Di	Leont 'ye ie fost-d tel Zone	Poldyrev reems Alon	onth, P.	and Porta				
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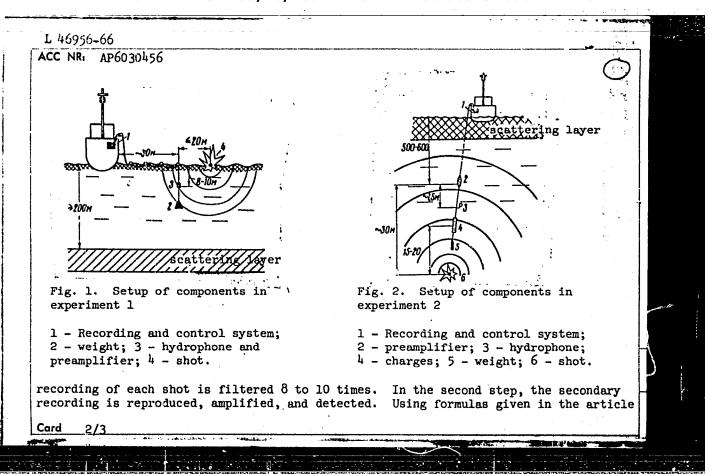


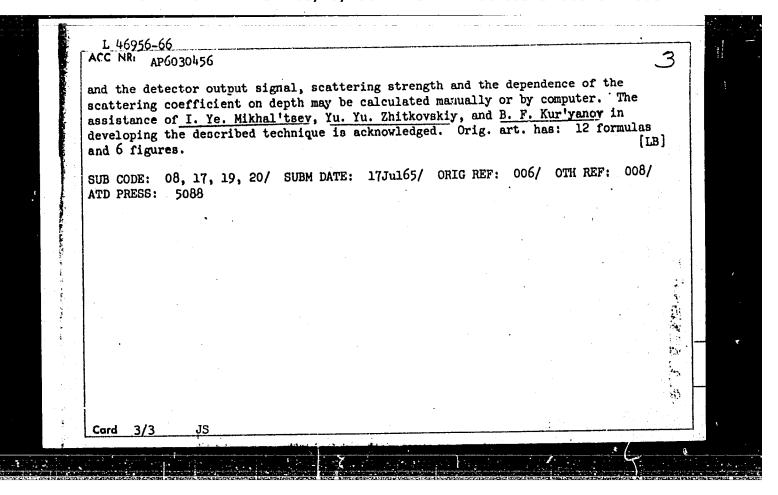
"国际企图是是"。

EWT(1)/EFF(n)-2/ETC(m)-6 TJP(o) WW/GG/GW L 21210-66 AP6011944 ACC NR SOURCE CODE: UR/0213/65/005/006/1028/1037 AUTHOR: Andreyeva, I. B. ORG: Acoustics Institute, A'I SSSR (Akusticheskiy institut AN SSSR) TITLE: Acoustic characteristics of sound-scattering layers in the ocean and data of echo sounder observations and direct catches 12, SOURCE: Okeanologiya, v. 5, no. 6, 1965, 1028-1037 TOPIC TAGS: acoustic scattering, acoustic wave, ocean acoustics, sonar ABSTRACT: In order to take into account the influence of sound-scattering layers on the propagation of acoustic waves in the ocean it is necessary to know their quantitative acoustic characteristics: intensity of the layer, scattering coefficient and the dependence of these parameters on frequency and depth. Data from echo sounder observations can be extremely effective both for a preliminary regionalization of large ocean areas on the basis of the abundance of sound-scattering accumulations and for facilitating the regionalization made on the basis of the results of quantitative acoustic measurements. Modern echo sounders, designed for measuring ocean depths, cannot ensure measurement of the quantitative characteristics of sound-scattering layers and therefore do not make possible even qualitative evaluation of the degree and character of the influence of biological accumulations on the underwater propagation of sound. Relatively small changes and additions to depth sounder circuits



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L 46956-66 EWI(1) GW ACC NR: AP6030456 (N) SOURCE CODE: UR/0213/66/006/004/	0599/0607 64
AUTHOR: Andreyeva, I. B.	
ORG: Acoustic Institute (Akusticheskiy institut)	SB I
TITLE: Study of volume sound scattering in the ocean and measurement of characteristics of scattering layers	acoustic 9W
SOURCE: Okeenologiya, v. 6, no. 4, 1966, 599-607	
TOPIC TAGS: acoustic scattering, acoustic detection, acoustic analysis, acoustic detection, acoustic equipment, acoustic measurement, acoustic prunderwater explosion, underwater acoustics, underwater sound equipment, acoustics, oceanography, volume sound scattering	cobagacion,
ABSTRACT: The article describes the development and use of modifications of measuring the averaged acoustic characteristics of both the sound-scale surface-bubbling layers. Two types of experiments (see Figs. 1 and 2) we taken to determine the characteristics of volume scattering. Two formula which serve as the initial computational relationships used in processing mental data. The procedures followed in both experiments are outlined in	ere under-
the methods and equipment used in recording and processing shot data are Two steps are followed in analyzing the experimental data. The first confrequency selection with the output re-recorded on magnetic tape. The processing shot data are	onsists of
Card 1/3 UDC: 551.463.262(26)	
Card 2/3	4





ACC 14R: AP7000141

SOURCE CODE: UR/0046/66/012/004/0399/0404.

AUTHOR: Andreyeva, I. B.; Kharat'yan, Ye. G.

ORG: Acoustic Institute, AN SSSR, Moscow (Akusticheskiy institut AN SSSR)

TITLE: Sound scattering by the ocean surface and by near-surface sound-scattering

layers

SOURCE: Akusticheskiy zhurnal, v. 12, no. 4, 1966, 399-404

TOPIC TAGS: scattering, sound scattering, grazing angle, ocean scattering, acoustic

scattering

ATAST ACT:

The results of ar the stigation of sound scattering by the near-surface layers of the ocean continuted by the research vessel "Mikhail Lomonosov" in the Wastern equator in region of the Atlantic Ocean in September—November 1963 and described. Underwater explosions served as acoustic sources, while a constitute sphere located a short distance above the point of explosion was the hydrophone. The depth of the whole system was varied between 200 and 500 m. The absolute values of the effective surface backscattering coefficients (o) were determined from the recorded scattering. The frequency dependence of or as well as its variation with the grazing angle were also obtained within the limits of 1—40 kc and 10—60°, respectively. It was established that at

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S/186/63/005/001/007/013 E075/E436

AUTHORS:

Andreyeva, I.B., Andreyev, P.F., Rogozina, E.M.

TITLE:

Investigation of the processes and interaction products of high molecular weight compounds with inorganic salts II. Formation of complexes between poly(α -methyl)acrolein and uranyl nitrate

PERIODICAL: Radiokhimiya, v.5, no.1, 1963, 103-106

TEXT: Polymerization of (α -methyl)acrolein was carried out with different catalysts to investigate the influence of substituents in the α position on he ability of the polymer to complex with $UO_2(NO_3)_2$. Ethyl-, propyl- and butyl-acroleins were also synthesized but could only be polymerized with metallic Na. Details of the polymerization procedures will be reported separately. Poly(α -methyl)acroleins obtained by emulsion polymerization with AgNO3 and K2SO5, Mohr's salt and K2SO5, hyposulfite and K2SO5 absorbed 1000 x 10-6 g of U per g of polymer. Auto-polymerized polymer absorbed 2000 x 10-6 g of U per g of polymer, its content of aldehyde groups being of the same order (66 to 69 mol%) as in the previous polymers. The polymers Card 1/2

s/186/63/005/001/007/013 E075/E436

Investigation of the processes ...

obtained in the presence of BF3, lithium-butyl and Na contained only 9 to 12% aldehyde groups and did not complex with U. The complex formation took place to the greatest extent at the pH In general the presence of methyl groups in values of 3 to 4. the polymer makes it hydrophobic and less capable of complexing with U than polyacrolein. There are 1 figure and 1 table.

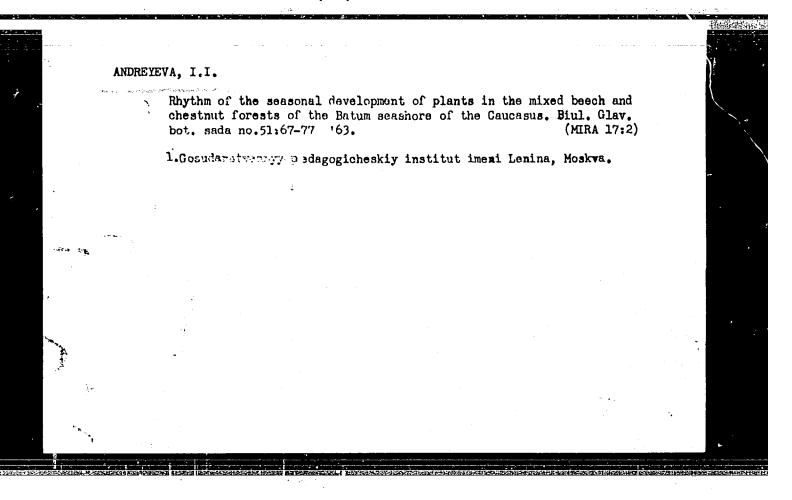
January 3, 1962 SUBMITTED:

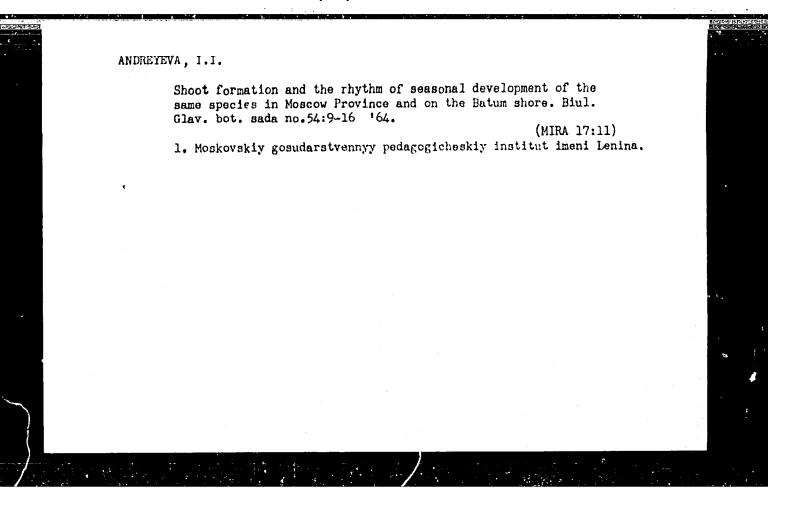
Card 2/2

ANDREYEVA, I. F. 1 ZUBKOVICH, L.E.

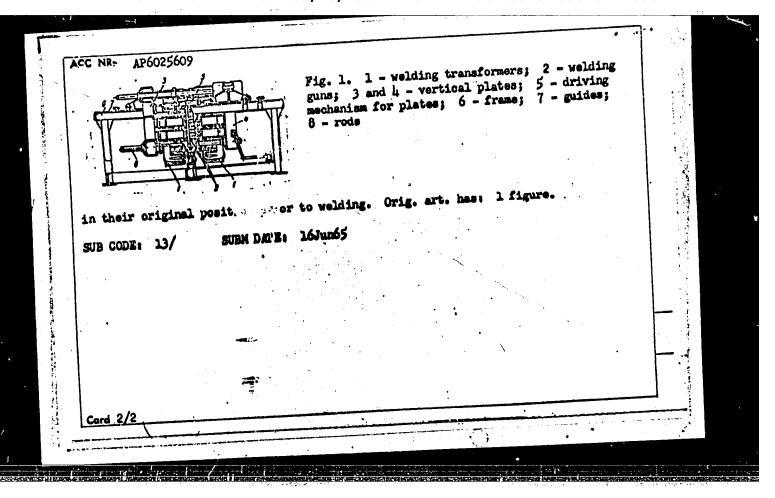
19856 ANDREYEVA, I. F. i ZUBKOVICH, L. E., Svoystva karbogidraz v sozrevayushehem zerne pshenitsy i sintez krakhmal'nykh zeren vne zhevoy kletki. Biokhemiya, 1949, Vyp. 3, s. 249-55. -Bibliogr: 7 nazv.

SO: LETOPIS ZHURNAL STATEY, Vol. 27, MOSKVA, 1949.





ORG: none TITLE: A machine for SOURCE: Izobreteniya TOPIC TAGS: welding, ABSTRACT: This Author The machine contains connected to a group the welding transfor	N.; Makar'in, V. P.; Palevich, K. K.; Rubaylo, G. M.; Santseva, V. M.; Andreyeva, I. I.; Semenova, A. G. promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 50 spot welding, welding technology, welding equipment r Certificate presents a machine for contact spot welding. r frame and welding transformers, each of which is electrically a frame and welding transformers, each of which is electrically of welding guns (see Fig. 1). To increase the productivity, of welding guns (see Fig. 1). To increase the productivity, ere together with the corresponding group of welding guns are ere together with the corresponding group of helding guns are the frame. The movement takes place along the horizontal the frame. Rods attached to one of the plates serve as an the frame. Rods attached for fixing the plates	`
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ANDREYEVA, I.M.; IVANOV, I.V.

Use of semiconductor diodes for electric frequency control in superhigh-frequency cavity resonators. Vest. Mosk. un. Ser. 3: Fiz., astron. 17 no. 5:3-6 N-D '62. (MIRA 15:12)

1. Kafedra teorii kolebaniy Moskovskogo universiteta.
(Electric resonators) (Diodes)

ALEKSANDFOVA, L.N.; ANDREYEVA, I.M.

Transformation of humus substances in the soil. Fochwovedenie no.7:20-26 Jl 163.

1. Leningradskiy sel'skokhozyaystvennyy institut.

(Humus)

KAGAN, D.F., kand. tekhn.nauk; VANYAKIN, D.M., kand. tekhn. nauk; LOBACHEV, P.V., kand. tekhn. nauk; YEKHLAKOV, S.V., inzn.; PAVLOV, L.D., inzh.; RUZIN, M.Ya., inzh.; ANDREYEVA, I.N., inzh.; SHMAKOVA, G.D., inzh. Prinimali uchastiye: SAPOZHNIKOV, M.M., kand. tekhn. nauk; GEFDING, A.K., kand. tekhn. nauk; MALINOVSKIY, R.B., inzh.; STRASHNYKH, V.P., red. izd-va; KASIMOV, D.Ya., tekhn. red.

[Instructions for designing, installing, operating, and repairing interior water supply systems using vinyl plastic pipes] Ukazaniia po proektirovaniiu, montazhu, ekspluatatsii i remontu vnutrennikh vodoprovodov iz viniplastovykh trub. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 91 p. (MIRA 15:2)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut sanitarnoy tekhniki. 2. Nauchno-issledovatel'skiy institut sanitarnoy tekhniki Akademii stroitel'stva i arkhitektury SSSR (for Kagan, Vanyakin, Lobachev, Yekhlakov, Pavlov, Ruzin, Andreyeva, Shmakova). 3. Leningradskiy nauchno-issledovatel'skiy institut Akademii kommunal'nogo khozyaystva im. K.D.Pamfilova (for Sapozhnikov). 4. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot (for Gefding). 5. Institut po proyektirovaniyu zhilishchnograzhdanskogo stroitel'stva v g. Moskve (for Malinovskiy). (Water pipes)

ANDREYEVA, I. N.

ANDREYEVA, I. N. — "Determination of Constants of the Vigration of a Chain of Organic Compounds in the Initiated Polymerization of Methyl Metacrylate." Min Higher Education USSR. Leningrad Order of Labor Red Banner Technological Inst imeni Leningrad Soviet. Chair of the Technology of Plastics. Leningrad, 1955. (Dissertation for the Degree of Candidate in Chemical Sciences)

SOURCE Knizhnaya Letopis', No 6 1956

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101410002-2"

ANDREYEVA, I.N.
YEGOROV, N.M.; ARKHIPOVA, Z.V.; VESHLOVSKAYA, Ye.V.; LEVINA, A.A.; SEMENOVA,
A.S.; BULAVSKIY, A.G.; ANDREYEVA, I.N.

Cyclic and continuous methods for the polymerization of ethylene at low pressures. Khim. nauka i prom. 2 no.3:398-399 157.

(MIBA 10:8)

1. Nauchno-issledovatel skiy institut polimerizatsionnykh plastmass.
(Ethylene) (Polymerization)

ANDREYEVA, I.N.

PHASE I BOOK EXPLOITATION

sov/1639

Polietilen nizkogo davleniya (Low-pressure Polyethylene) Leningrad, Goskhimizdat, 1958. 90 p. (Series: Novyye plasticheskiye massy) 10,000 copies printed.

Ed. (Title page): N.M. Yegorov; Ed. (Inside book): Ye. I. Shur; Tech. Ed.: Ye. Ya. Erlikh.

PUR?OBE: This backlet is intended for mechanics, engineers and technicisms in chemistry, petroleum technology, foods, pharmaceuticals, electrical engineering, battery manufacturing, radio engineering, automobile manufacturing, highfrequency engineering, television, communications, machine- and ship-building, aviation, construction and other branches of industry employing plastic

COVERAGE: The booklet describes a new material: polyethylene produced at low pressures. Its industrial preparation and properties are described along with methods of making articles from this material and its application in building technology, medicine and other branches of science. The booklet was compiled by personnel of the Scientific Research Institute for Polymerized Plastics: Ch. I.: I.N. Andreyeva, Z.V. Arkhipova, Ye.V. Veselovskaya, A.A. Levina;

Card 1/4

Low-pressure Polyethylene 80V/1639	
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ANDREYEVA. I.N.; ARKHIPOVA, Z.V.; VESELOVSKAYA, Ye.V.; LEVINA, A.A.;
ANTOKOL'SKAYA, Ye.M.; LAZAREVA, N.P.; SAZHIN, B.I.; KHIN'KIS,
S.S.; SHCHERBAK, P.N.; GERBIL'SKIY, I.S.; LYANDZBERG, G.Ya.;
PARAMONKOVA, T.V.; PECHENKIN, A.L.; YEGOROV, N.M., red.;
SHUR, Ye.I., red.; FOMKINA, T.A., tekhn.red.

[Low-pressure polyethylene] Polietilen nizkogo davleniia. Izd.2., ispr. i dop. Leningrad, Gos.nauchno-tekhn.izd-vokhim.lit-ry. 1960. 95 p. (MIRA 14:1)

1. Nauchno-issledovatel skiy institut polimerizatsionnykh plastmass (for all, except Yegorov, Shur, Fomkina). (Polyathylene)

Ε,		
	L 3912-66 EWT(m)/EPF(c)/EWP(j)/T RPL WW/RM	
	ACCESSION NR: AP5024498/ UR/0191/65/000/010/0004/0006 AUTHOR: Andreyeva, I. N.; Zapletnyak V. M.; Severova, N. N.; Arkhipova, J. V. M.; Severova, N. N. J. V. M.; Severova, N. V. M.; Severova, N. M. J. V. M.; Severova, N. M. J. V. M.; Severova, N. V. M.; Severova, N. M. J. V. M.; Severova, N. V. M.; Severova,	
	TITLE: Copolymerization of ethylene with propylene using certain organometallic catalysts SOURCE: Plasticheskiye massy, no. 10, 1965, 4-6	
	TOPIC TAGS: ethylene, propylene, copolymerization, catalytic polymerization, polymerization rate, copolymer, polymerization catalyst, organoaluminum compound	4
	ABSTRACT: The relative activity of ethylene and propylene in their copolymerization using Ziegler-Natta catalysts was studied to obtain data necessary for the production of copolymers having valuable technical properties. The relative activity of propylene during copolymerization with different catalyst systems de-	
	creased in the following order: (1) $Al(C_2H_5)_2Cl + TiCl_4$; (2) $Al(C_2H_5)_3 + TiCl_4$; (3) $Al(C_2H_5)_3 + VOCl_3$; (4) $Al(C_2H_5)_2Cl + \kappa - TiCl_3$; and, (5) $Al(C_2H_5)_3 + \kappa - TiCl_3$. Change in catalyst concentration had no effect on the activity of the monomers. Change in the ratio of catalyst components in catalysts (4) and (5) did not change	
	Card 1/2	

L 3912-66

ACCESSION NR: AP5024496

the composition of the copolymer, but decrease in the ratio of the aluminum alkyl in the other catalyst systems led to an increase in the propylene content in the copolymer made with catalysts (1) and (2), and a decrease in propylene when using catalyst (3). The copolymerization constants have the same values when catalyst systems (4) or (5) are used or when the $Al(C_6H_{13})_3 + \kappa$ -TiCl₃ system is used, indicating that different aluminum alkyl derivatives in combination with κ -TiCl₃ do not change the relative activity of the monomers. The copolymerization constants change significantly with a change in the aluminum organic derivatives in systems based on TiCl₄. This is apparently due to the different reductivility of the aluminum organic derivatives and subsequent formation of different active centers. Orig. art. has: 2 tables, 1 figure and 2 equations.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: OC, MT

NR-REF SOV: 002

OTHER: 004

Cord 2/2

L:)17787-65 EMT(In)/EPF(c)/T/EWP(j)/EPR Pc-4/Pr-4/Ps-4 RPL WW/RM ACCESSION NR: AP3004307 S/0191/65/000/002/0009/0012 Airthor: Shelayevi, L. /.; Domareva, N. M.; Andreyeva, I. N.; Voselovsk-ya, L. N. Nikolayeva, L. I.; Goldenberg, A. L. TITLE: Study of the polydispersity and structure of an ethylene-propylene copoly-SOURCE: Plasticheskiye massy, no. 2, 1965, 9-12 TOPIC TAGS: ethylene copolymer, propylene copolymer, polyolefin synthesis, polymer structure, polydispersity, Ziegler catalyst, polymer fractionation, polymer molecular weight ABSTRACT: Ethylene and propylene were solution-polymerized in the presence of a Ziegler catalyst in order to study the molecular weight distribution, composition and intrinsic viscosity of the copolymer and the mutual effects of molecular weight and viscosity. The monomers were polymerized at 4-5 atm. with triethylaluminum-titanium tetrachloride to form a copolymer containing 4-10 mol.% propylene, determined ' spectrographically from the methyl group concentrations. The intrinsic viscosity was measured in decalin solution on a capillary viscometer at 135C, the weight-average molecular weight was determined with an optical Care 1/2

by precipitation with the lar weight distribution was a ethylene and to be described (Journ. Polymer Science v. 26 decreased with increasing conto proceed both by copolymer indicate a	loronaphthalene, and the polymer was fractionated in vent-pair tetralin-triethylene glycol. The molecular vent-pair tetralin-triethylene glycol. The molecular vent-pair tetralin-triethylene glycol. The molecular satisfactorily by Tung's distribution functions satisfacto	
ASSOCIATION: None	SUB CODE: OC	
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IN) KRK DOA		

ACC NR. AP6029052

TA

SOURCE CODE: UN/0413/66/000/014/0080/0081

INVENTORS: Kuznetsov, Ye. V.; Gusev, V. I.; Zhidkova, T. N.; Andreyeva, I. N.; Semenova, L. S.

ORG: none

TITLE: A method for obtaining copolymers of propylene. Class 39, No. 183938

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 80-81

TOPIC TAGS: polymer, copolymer, propylene, polymerization, ester, phosphoric acid, catalyst, titanium compound, aluminum compound

ABSTRACT: This Author Certificate presents a sethed for obtaining copolymers of propylene with unsaturated compounds in the medium of an inert carbonaceous solvent at the temperature from 20 to 60C. The process is carried out in the presence of a catalyst consisting of titanium tetrachloride and aluminum alkyls. To impart the property of fire resistance to the copolymers, unsaturated mixed esters of phosphoric acid are used as the unsaturated compounds.

SUB CODE: 11/

SUBM DATE: 06Sep62

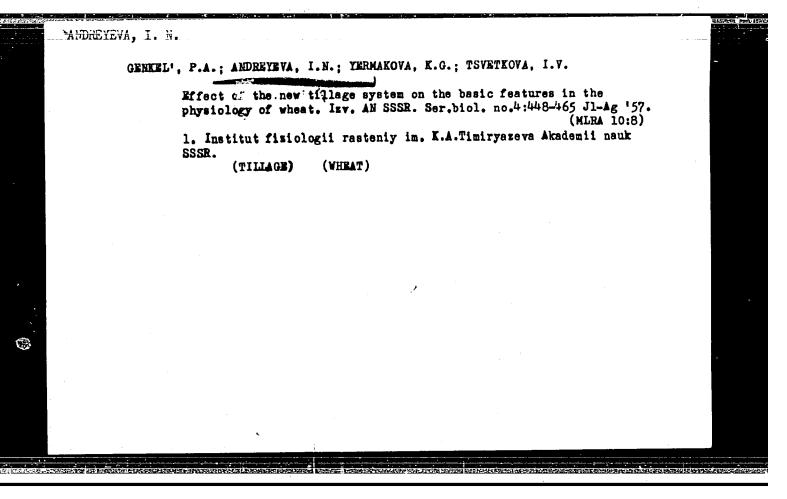
Card 1/1

VDC: 678.742.3-134.573

ANDREYEVA, I.N.; ZAPLETNYAK, V.M.; SEVEROVA, N.N.; ARKHIPOVA, Z.V.

Copolymerization of ethylene and propylene with the use of some organometallic catalysts. Plast. massy no.10:4-6 '65.

(MIRA 18:10)



ANDREYEVA, I.N.

Plant nutrition as influenced by T.S. Mal'tsev's new tillage system
[with summary in English], Fiziol, rast. 4 no.6:533-541 N-D '57.

(MIRA 10:12)

1. Institut fiziologii rasteniy im. K.A. Timiryazeva AN SSSR, Moskva.
(Tillage) (Plants--Nutrition)

ANDREYEVA, I. N., Cand Biol Sci -- (diss) "Peculiarities of nutrition of plants under new system of treatment of soil according to Tr-8.

1.5. Mal'tsev's method Mos, 1958. 20 pp (Inst of Physiology of Plants im K. A. Timiryazev, Acad Sci USSR), 150 copies (KL, 13-58, 106)

-18-

1 USSR COUNTRY Plant Physiology. Mineral Nutrition. CATEGORY RZhBiol., No. 6 1959, No. 24533 ABS. JOUR. Andreyeva, I.N. AUTHOR INST. : Characteristics of Plant Nutrition Under the New TITLE System of Soil Cultivation of T. S. Mal'tsev ORIG. PUB. : Fiziol. rasteniy., 1957, 4, No. 6, 533-541 : In fields on the collective farm "Zavet Il'icha" ABSTRACT and in the Shadrinskiy Rayon experimental station Kurganskaya oblast', for the purpose of scientifically testing the new system of scil oultivation of T. S. Mal'tsev, a system of mineral nutrition of corn and sunflower was studied by determining the composition of the plant juices by the Sabinin method (Biol. otd. semled., 1928, No. 15). It has been established that the method of diagnosing mineral nutrition by analysis of the CARD: 1/2

GENKEL', P.A., prof.; ANDREYEVA, I.N., kand.biologicheskikh nauk

New scientific data on cellular structure. Biol.v shkole
no.6:83-88 NaD '62. (MIRA 16:2)

1. Institut fisiologii rasteniy imeni K.A.Timiryazeva AN SSSR.
(Cells) (Electron microscopy)

ANDREYEVA I.N. Absorption of mineral substances by plants subjected to a desiccant wind. Fiziol. rast. 11 no.1:79-86 Ja-F 164. (MIRA 17:2) 1. Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR, Moskva.

ANDREYEVA, I.N.; KURKOVA, Ye.B.

Oxidative phosphorylation in the mitochondria of corn roots. Fiziol.rast. 12 no.42584-590 Jl-Ag 165.

(MIRA 18:12)

1. Institut fiziologii rasteniy imeni K.A.Timiryazeva AN SSSR, Moskva. Submitted June ?6, 1964.

ANDREYEVA, I. P.

"Investigation of Irregular Operation of Hydroelectric Station Aggregates." Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov, Min Higher Education USSR, Moscow, 1955. (KL, No 14, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

ANDREYEVA, I.P., kandidat tekhnicheskikh nauk.

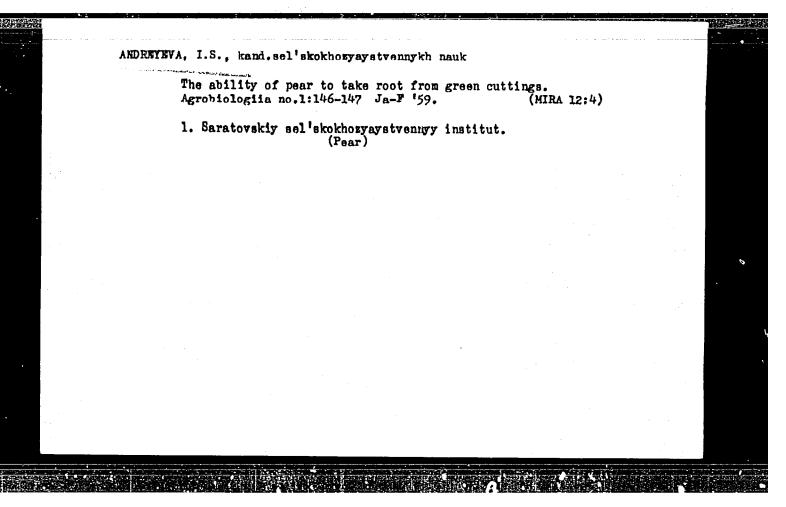
Stability of steady states in hydroelectric power stations and power systems. Truly MEI no.19:95-105 '56. (MIRA 10:1)

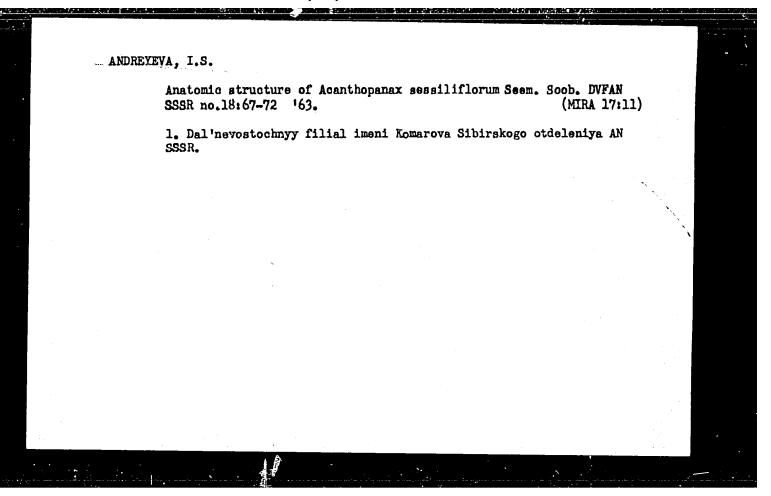
1. Kafedra gidroenergetiki. (Power engineering)

ANDREYEVA, 1. S.

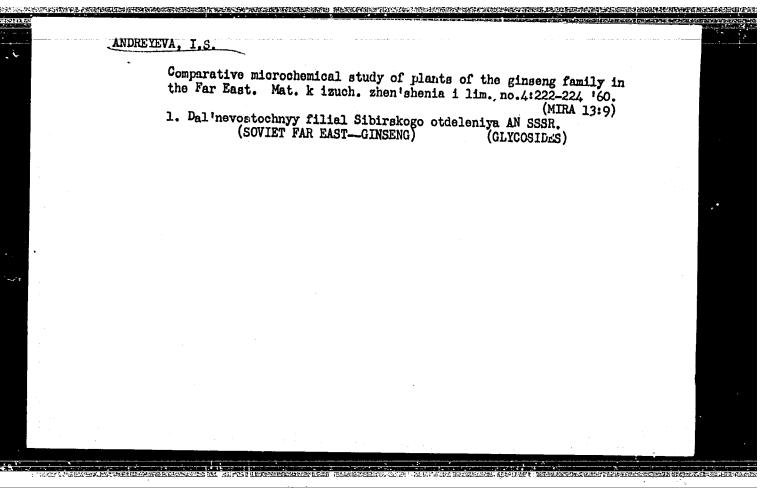
"Anatomicomorphological and Biochemical Character of Pears with Different Rates of Ripening." Cand Agr Sci, Fruit and Vegetable Inst imeni I. V. Michurin, Min Higher Education USSR, Michurinsk, 1954. (KL, No 17, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).





ANDREYEVA, I.S. Anatomical characteristics of ginseng roots of various age. Mat. k izuch. zhen'shenia i lim. no.4:116-121 '60. (MIRA 13:9) 1. Dal'nevostochnyy filial Sibirskogo otdelaniya AN SSSR. (GINSENG) (ROOTS (BOTANY)...ANATOMY)



ANDREYEVA, I.S.

Some anatomical characteristics of Eleutherococcus senticocus Max. Soob.DVFAN SSSR no. 15:135-138 '62. (MIRA 17:9)

1. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR.

ISAYEVA, Z.G.; ANDREYEVA, I.S.

Interaction of 4^3 -carene oxide with methyl alcohol in the presence of sodium methylate. Dokl. AN SSSR 152 no.2:342-345.S '63. (MIRA 16:11)

1. Nauchno-issledovatel skiy khimicheskiy institut im.A.M.Butlerova pri Kazanskom gosudarstvennom universitete im. V.I. Ul'yanova-Lenina. Predstavleno akademikom B.A. Arbuzovym.

ISAYEVA, Z.G.; ANDREYEVA, I.S.

1. Nauchno-issledovatel'skiy khimicheskiy institut im. A.M.Butlerova Kazanskogo gosudarstvennogo universiteta im. Ul'yanova-Lenina. Predstavleno akademikom B.A.Arbuzovym.

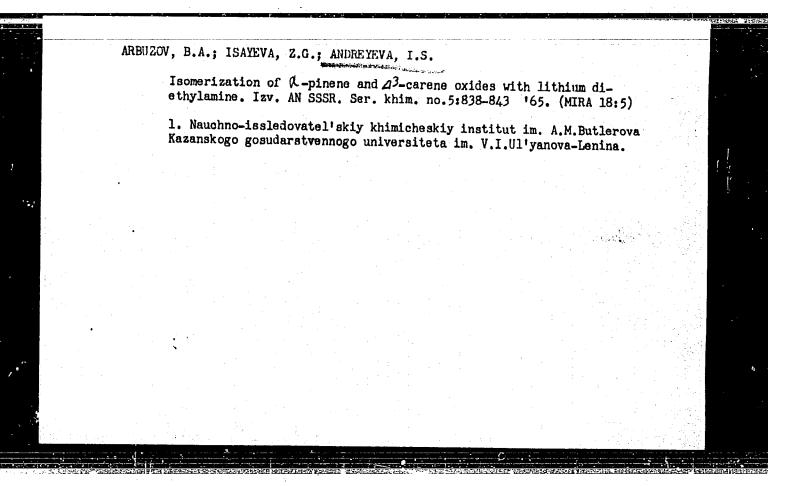
(Carene) (Alcohols) (Isomerization)

ANDREYEVA, I.S.

Dynamics of the reserve substances of ginseng during the vegetative period. Mat. k izuch. zhen*. i drug. lek. rast. Dal*. Vost. no.5:45-52 *63.

Anatomic and microchemical characteristics of the roots of ginseng from distant regions. Ibid.:163-67 (MIRA 17:8)

1. Palinevestechnyy filial imeni Komarova Sibirakogo otdeleniya AN SSSR.

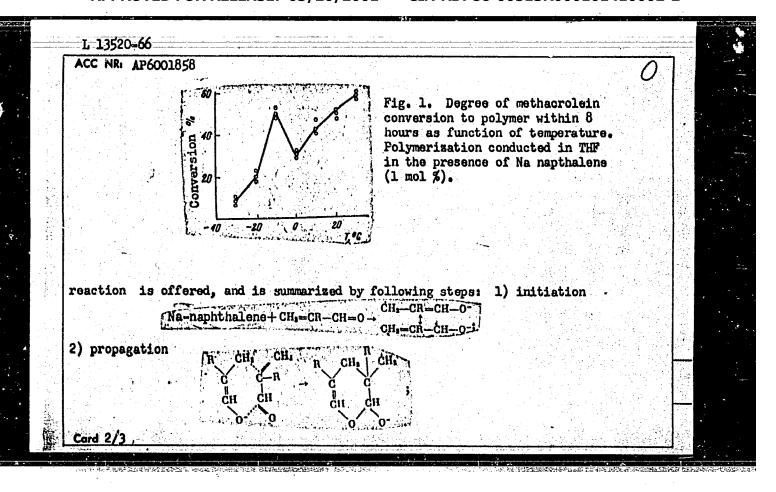


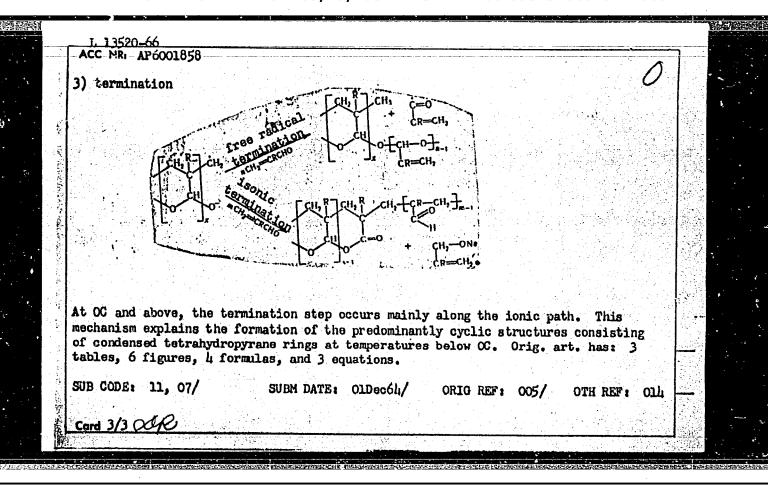
ANDREYEVA, I. V.

1420 Issledova_iye napryazhenniy v tsilindrakh gidravlicheskikh pressov. M., 1954
8 s. 19 sm. (M-vo vyssh. obrazovaniya SSSR. Mosk. stankoinstrum. In-t im. I. V.
Stalina). 100 ekz. Bespl. -(54-53768)

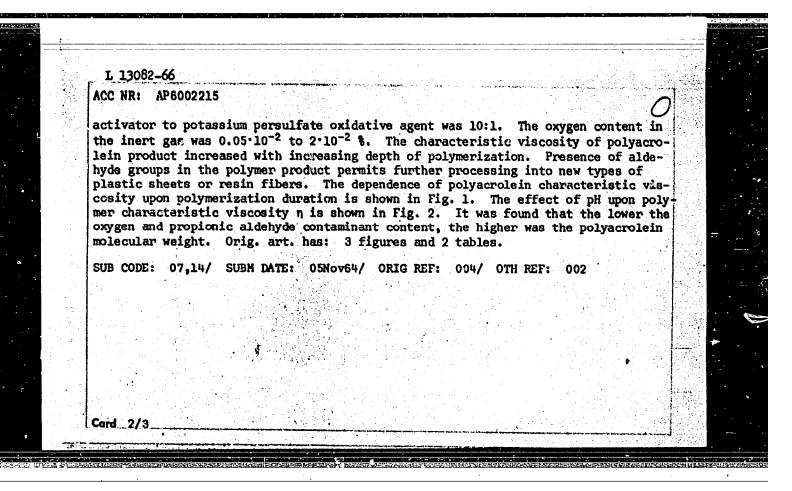
S0: Knizhaya Letopis', Vol. 1, 1955

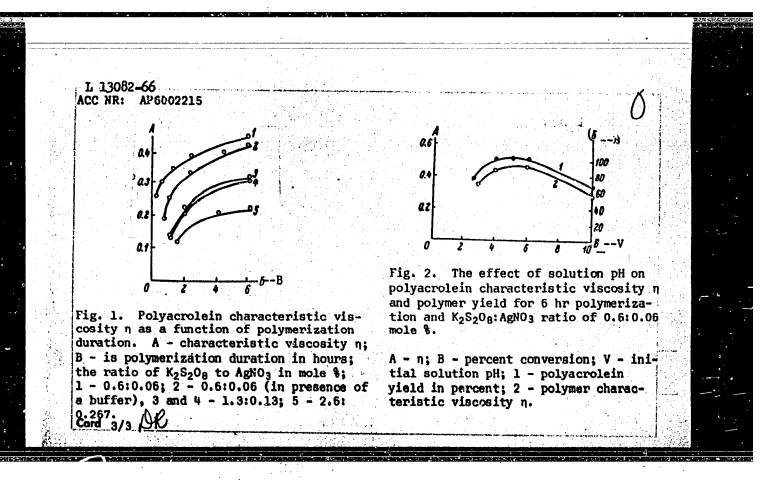
L=13520-66 EWI(n)/EWP(1)/T RM ACC NR: AP6001858 SOURCE CODE: UR/0190/65/007/012/2039/2047 AUTHORS: Koton, M. M.; Andreyeva, I. V.; Getmanchuk, Yu. P.; Madorskaya, L. Ya.; Pokrovskiy, Ye. I.; Kol'tsov, A. I.; Filatova, V. A. ORG: Institute of High-Molecular Polymers AN SSSR (Institut vysokomolekulyarnykh soyedineniy AN SSSR) TITLE: Structure of methacrolein polymers, obtained in the presence of anionic catalysts, 3rd report in the series Polymerization of Acrolein and Its Derivatives SOURJE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2039-2047 TOPIC TAGS: polymerization, polymer structure, reaction mechanism, catalyst/ Nippon Bunko infrared spectrophotometer DS 301, GNM 3 nuclear magnetic resonance spectrometer ABSTRACT: The structure of polymers obtained from methacrolein and
 -ethylacrolein in the presence of sodium naphthalene and sodium trityl using the method described by M. M. Koton, I. V. Andreyeva, and Yu. P. Getmanchuk (Dokl. AN SSSR, 155, 836, 1964) was investigated. The structure analysis was performed by chemical means: oxime formation, hydrogenation, oxidation with perbenzoic acid, ozonization, as well as by physical means: infrared spectra, using Nippon-Bunko spectrophotometer DS-301, and NMR spectra, using instrument GNM-3. It was established that the rate of conversion of methacrolein and the structure of the obtained polymer are both functions of the polymerization temperature, as illustrated in Fig. 1. Mechanism of the polymerization Card 1/3 678.01:53+678.744

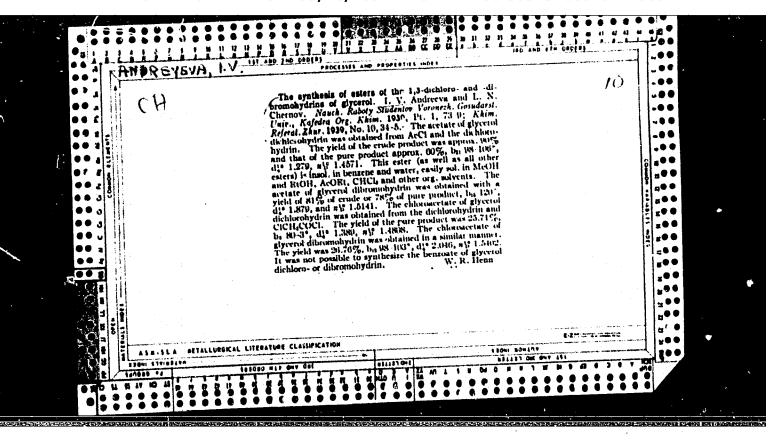




<u>L 13082-66</u> EWT(m)/EWP(j)/T RM	
ACC NR: AP6002215 (A) SOURCE CODE: UR/0080/65/038/012/2740/2744 AUTHOR: Andreyeva, I. V.; Koton, M. H.; Getmanchuk, Yu. P.; Tarasova, M. G.	
ORG: Institute of High Holecular Compounds, AN SSSR (Institut vysokomolekulyarnykh	
TITLE: Emulsion polymerization of methacrolein	•
SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 12, 1965, 2740-2744	
TOPIC TAGS: emulsion polymerization, methacrolein, catalytic polymerization, high polymer, polymer, acrylic plastic	
ABSTRACT: Emulsion polymerization of methacrolein was studied in the presence of potassium persulfate and silver nitrate with a solution of polyacrolein bisulfite as a specific emulsifier. The object of the work was to develop a process for making a soluble polymer with high molecular weight containing reactive aldehyde groups. The	1
optimum ratio of the monomer to water is 1:8 and the optimum polymerization temperature is 50° C. In all experiments the emulsifier content was constant (5 wt % based on the monomer). The amount of the initiator varied but the ratio of silver nitrate	
Cord 1/3 UDC: 678.744	







ANDREIEVA, 1. V.

ANDREYEVA, I. V.--"The Synthesis and Polymerization of Vinyl Derivatives of the Furane and Thiophene Series." Acad Sci USSR. Inst of High-Molecular Compounds. Leningrad, 1955. (Dissertation for the Degree of Candiate in Chemical Science).

SO Knizhnaya letopis' No 2, 1956.

15-57-10-14441

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,

p 177 (USSR)

AUTHORS:

Andreyev, P. F., Andreyeva, I. V.

TITLE:

The Internal Structure of Paraffin Oils (K voprosu o

vnutrennem stroyenii parafinistykh neftey)

PERIODICAL:

Tr. Vses. neft. n.-i. geologorazved. in-ta, 1956,

Nr 95, pp 355-383.

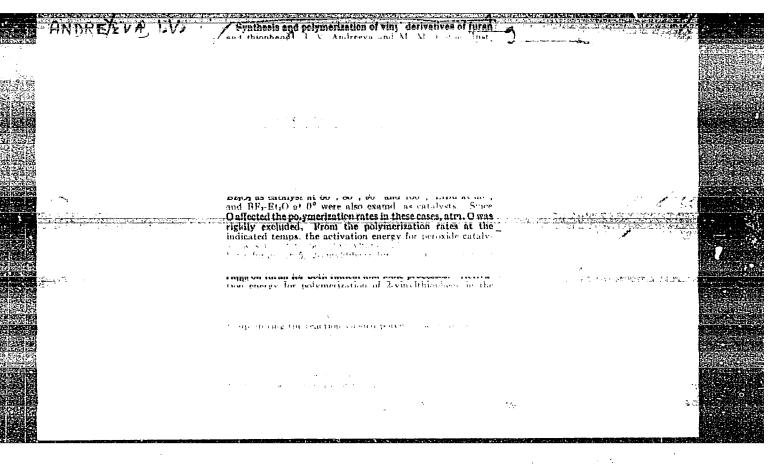
ABSTRACT:

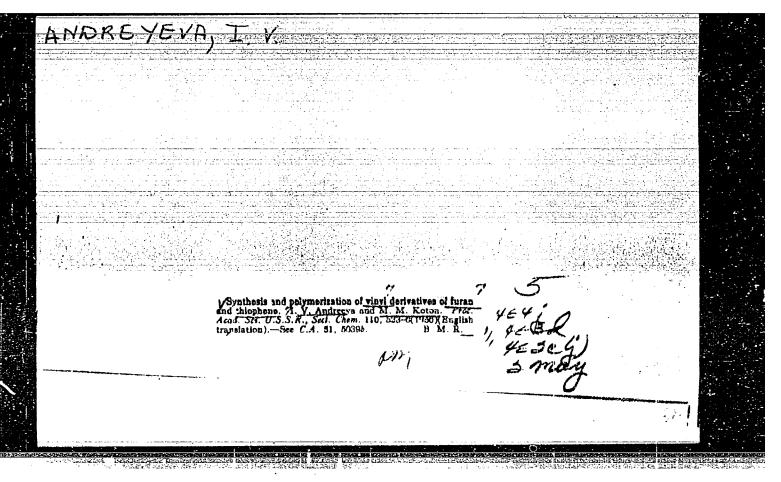
Paraffin oil is believed to be a system consisting of a dispersing medium (liquid hydrocarbons) and a dispersed phase (heavy tarry substances and solid hydrocarbons). The materials of the dispersed phase are capable of mutual adsorption and formation of complex

aggregates.

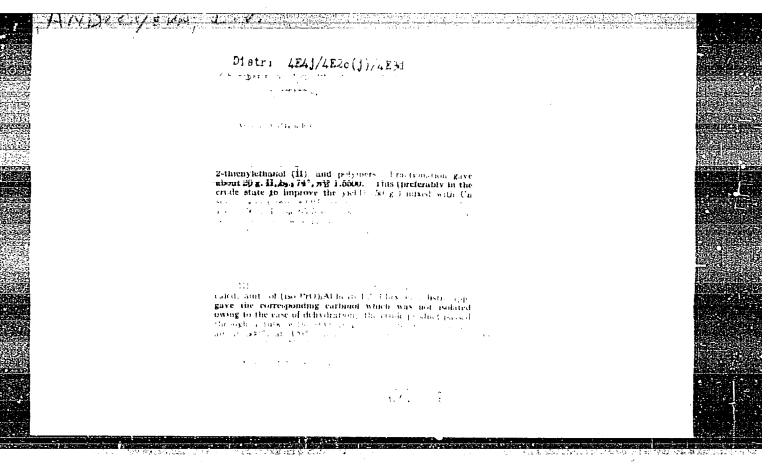
Card 1/1

G. A. Gladysheva





ANDREYSVA I Wais KOTON, M.M. Synthesis of vinyl derivatives of the furan series. Zhur. ob. khim. 27 no.3:671-677 Mr !57. 1. Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR. (Furan) (Vinyl compounds)



AUTHORS:

Andreyeva, I. V., Koton, M. M.

76-32-5-4/47

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TITLE:

The Influence of the Structure of Monomers on the Polymerizability in the Series of Vinyl Derivatives of Furan (Vliyaniye stroyeniya monomerov na sposobnost! k polimerizatsii v ryadu vinil'nykh proizvodnykh furana)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 5, pp. 991-994

(USSR)

ABSTRACT:

The influence of the increase in number of condensed benzene r ings in the initial monomers on the polymerizability and on some other properties was investigated; for this purpose 2--vinylfuran, 2-vinylbenzofuran and 2-vinyldibenzofuran were synthetized. In the determination of the polymerization kinetics in the block close to the benzoylperoxide a modified mercury dilatometer according to L.I. Yefimov was used, while in using ionic catalysts a catalyst according to Schlenk was taken. The characteristic viscosity and heat resistance of the investigated nolymers were determined by the IFL instrument and are given on Table 2, together with the obtained values of activation energies. From the experimental results obtained

Card 1/2

can be seen that the velocity of polymerization in the series

The Influence of the Structure of Monomers on the 76-32-5-4/47 Polymerizability in the Series of Vinyl Derivatives of Furan

of 2-vinyldibenzofuran- 2-vinylbenzofuran- 2-vinylfuran increases which is in agreement with the obtained values for the activation energies; it was also observed in the case of using an ionic catalyst. In the same order also an increase of the molecular weight and of the heat resistance of the corresponding polymers was observed, as well as an improvement of the dielectric properties, which corresponds to the data of references and to the data obtained. There are 6 figures, 2 tables, and 5 references, 3 of which are Soviet.

ASSOCIATION:

Akademiya nauk SSSR, Institut vysokomolekulyarnykh soyedineniy

(Institute of High-Molecular Compounds, AS USSR)

SUBMITTED:

June 19, 1956

1. Furan derivatives—Polymerization 2. Vinyl compounds (Polymerized) 3. Vinyl compounds—Chemical reactions

Card 2/2

AUTHORS:

Andreyeva, I. V., Koton, M. M.

SOV/76-32-8-19/37

TITLE:

The Effect of the Monomer Structure on the Polymerizability of Vinyl Derivatives of Thiophene (Vliyaniye stroyeniya monomerov na sposobnost' k polimerizatsii vinil'nykh proizvodnykh tiofena)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1958, Vol. 32, Nr 8, pp. 1847-1850 (USSR)

ABSTRACT:

According to data in publications the derivatives mentioned above are capable of forming polymers having dielectric properties similar to those of polystyrene and having a higher softening temperature. An investigation of these compounds is also interesting as the influence exerted by the type of different substituted heterocycles in the ethylene molecule may be investigated with respect to the polymerizability and the properties of the compounds obtained. In the present paper the number of condensed benzene rings in the initial monomer was increased, and therefore 2-vinyl thiophene and 2-vinyl dibenzo thiophene were synthesized. The polymerizability was investigated according to the dilatometric method, viz., in the first solution with 0,5 mole% of benzoyl peroxide (in block and solution), and in the second in solution at 80,90 and 100°.

Card 1/2

The Effect of the Monomer Structure on the Polymerizability of Vinyl Derivatives of Thiophene

The operation technique has already been described. It was found that analogous to the furfurane series the introduction of condensed aromatic rings into the ethylene molecule increases the rate of polymerization. Besides the heat resistance increased to more than the double and the dielectric properties also improved on the occasion of the transition from 2-vinyl thiophene to 2-vinyl dibenzo thiophene. A comparison of the polymers obtained with those of the furane series shows that the latter exhibit worse properties. There are 5 figures and 10 references, 3 of which are Soviet.

ASSOCIATION:

Akademiya nauk SSSR, Institut vysokomolekulyarnykh soyedineniy (AS USSR, Institute of High-Molecular Compounds)

SUBMITTED:

March 21, 1957

Card 2/2

5(3) AUTHORS:

Andreyeva, I. V., Koton, M. M.

SOV/62-59-3-28/37

TITLE:

On the Polymerization of α -Methyl Styrene in Solid (Frozen) State

(O polimerizatsii α-metilstirola v tverdom (zamorozhennom)

sostoyanii)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 3, pp 552-553 (USSR)

ABSTRACT:

This is a brief communication on the polymerization of styrene in the block with gaseous BFz in solid state at -800 (freezing point of styrene -230) in an atmosphere as dry and free from oxygen as possible. Under the same conditions a-methyl styrene was polymerized in a yield of 85 %. The polymer is soluble in organic solvents (benzene, toluene, chloroform, etc) and is precipitated from methyl or ethyl alcohol. The data on the polymerization kinetics of x-methyl styrene are given on a figure. As may be seen from it, the pressure of gaseous BF3 in a block (without cracks) exercises only an unimportant influence on the polymerization of styrene. From the data mentioned in the table it may be seen the the yield of polymers, their molecular weight and the melting temperatures increase with the decrease of the polymerization temperature.

Card 1/2

CIA-RDP86-00513R000101410002-2 "APPROVED FOR RELEASE: 03/20/2001

On the Polymerization of α -Methyl Styrene in Solid SOV/62-59-3-28/37

(Frozen) State

There are 1 figure, 1 table, and 1 reference.

ASSOCIATION:

Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR

(Institute of High-molecular Compounds of the Academy of

Sciences, USSR)

SUBMITTED:

July 18, 1958

Card 2/2

28650

21.4200 also 1496

\$/020/61/139/006/017/022 B103/B101

AUTHORS:

Koton, M. M., Corresponding Member AS USSR, Andreyeva, I. V., Andreyev, P. F., and Rogozina, E. M.

TITLE:

Complexes of polyacrolein with heavy-metal salts

-B-r

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 139, no. 6, 1961, 1372-1374

TEXT: It is noted that samples of polyacrolein powder obtained under different conditions differ in their ability to form coordination complexes with heavy-metal salts. The strongest ability to cause such reactions has uranyl nitrate. In the pH range investigated salts of Pb, Co, Mn, Cu, Ni, and Fe are not able to form stable complexes with polyacrolein. Concerning the extraction of heavy-metal salts with organic compounds, the authors refer to papers by V. M. Vdovenko (Khimiya urana i transuranovykh elementov (Chemistry of uranium and transuranic elements) Izd. AN SSSR, 1960) and V. I. Kuznetsov (Usp. khim., 23, v. 6, 654 (1954)). The maximum quantity of uranium $(2305 \cdot 10^{-6} \text{g/g})$ was extracted from aqueous solutions by means of polyacrolein samples obtained by polymerization of acrolein in

Card 1/3

28650 S/020/61/139/006/017/022 B103/B101

aqueous solutions under the action of the redox system $K_2S_2O_8 + AgNO_3$ which is somewhat more effective than the system $K_2S_2O_8 + Mohr's$ salt. Disacryl and polyacrolein obtained under the action of $K_2S_2O_8 + Na_2S_2O_3$ are less effective. The poorest extracting agents are samples of polymers obtained at low temperatures in the presence of boron trifluoride or by means of lithium butyl. The authors established a relationship between the content of aldehyde groups which are able to form oximes and the ability to extract uranium from aqueous solutions. Uranium can be extracted in the range of pH3 - pH4. Outside this range the percentage of extracted uranium drops quickly. The distribution coefficients for different samples of polyacrolein differ by a factor of ten (from 0.005025 to 0.04803). Uranium absorbed by polyacrolein can be quantitatively dissolved by dilute HC1. There are 2 figures, 2 tables, 4 Soviet and 6 non-Soviet references. The reference to English-language publications reads as follows: J. S. Anderson, Nature, 134, No. 165 (1950).

Complexes of polyacrolein with heavy-...

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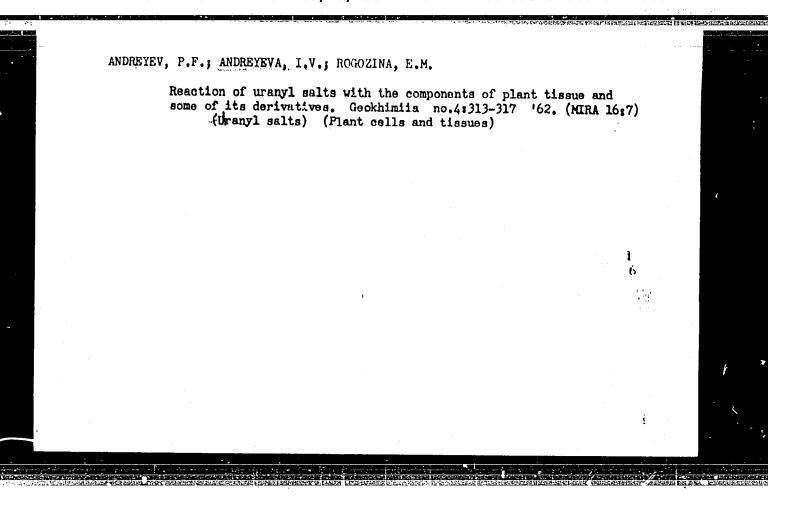
\$/020/61/139/006/017/022

Complexes of polyacrolein with heavy-... B103/B101

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR (Institute of High-molecular Compounds, Academy of Sciences USSR)

SUBMITTED: April 8, 1961

Card 3/3



10

36292

s/190/62/004/004/008/019 B119/B138

AUTHORS:

Andreyeva, I. V., Koton, M. M., Kovaleva, K. A.

TITLE:

Polymerization of acrolein and its derivatives. I. Low-temperature polymerization of acrolein and $\alpha\text{-methyl}$ acrolein

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 4, 1962, 528-532

TEXT: Acrolcin (1) and α-methyl acrolein (2) were polymerized in the presence of gascous BF₃ between 0 and -80°C in block and in solution (solvent: CH₂Cl₂). The experiments were made in sealed ampoules, partly with exclusion of 0₂ and H₂O, partly in the presence of very small amounts of H₂O.Results: Polymers obtained in block polymerization with 10-15% conversion are completely soluble in organic solvents. With a higher degree of conversion, the reaction product becomes insoluble in organic solvents but soluble in sulfurous acid. The reaction with 15-20% conversion without H₂O takes 15-30 hr at -20°C, with H₂O, 3-8 hr.

Polymerization of acrolein and its ... $S/i90/62/\overline{0}04/004/008/019$

The molecular weight of the polymer produced in the presence of $\rm H_2O$ is lower than in the one produced without water. Maximum conversion was attained at -20 to -40°C with 1.5 mole% BF₃ (with 1) and 2.5 - 3 mole% (with 2). The block polymers give no aldehyde reaction, they are cyclized

gives a soluble product with a melting point of $150-170^{\circ}$ C and [1] 0.06 - 0.07 in benzene at -60° C and 30% conversion, but an insoluble and nonmelting product at -20° C and 30% conversion. The polymer obtained from dilute solutions is not cyclized. At -20° C the rate of polymerization decreases in the order acrolein - α -methyl acrolein - α -ethyl acrolein. There are 4 figures and 1 table.

Card 2/3

S/186/62/004/006/004/009 E075/E436

AUTHORS:

Andreyova, I.V., Andreyev, P.F., Rogozina, E.M.

TITLE:

Investigation of the process and products of interaction of high molecular weight compounds with inorganic salts. I. The formation of polyacrolein complexes with uranylnitrate

PERIODICAL: Radiokhimiya, v.4, no.6, 1962, 660-667

TEXT: The complex forming ability of various polyacroleins
was examined for the first time. This work forms a start of a
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ANDREYEVA, I.V.; KOTON, M.M.; KOVALEVA, K.A.

Polymerization of styrene derivatives in the solid (frozen) state.

Izv. AN SSSR.Otd.khim.nauk no.lq:1890-1891 0 '62. (MIRA 15:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

(Styrene) (Polymerization)

ANDREYEVA, I.V.; ANDREYEV, P.F.; ROGOZINA, E.M.

Processes and interaction products of macromolecular compounds with inorganic salts. Part 2: Formation of complexes of poly(m-methyl)acrolein with uranyl nitrate. Radiokhimiia 5 no.1:103-106 163. (MIRA 16:2)

(Acrolein)
(Uranyl nitrate)
(Macromolecular compounds)

s/020/62/144/005/013/017 B124/B138

15.8070

AUTHORS:

Koton, M. M.; Corresponding Member, AS USSR, Andreyeva, 1. V.,

and Getmanchuk, Yu. P.

Emulsion polymerization of α -methyl acrolein in the presence

of various redox systems TITLE:

Akademiya sauk SSSR. Doklady, v. 144, no. 5, 1962, 1091-1093 PERIODICAL:

TEXT: a-methyl acrolein was polymerized in various redox systems in the presence of a new type of emulsifier, aqueous polyacrolein sulfite. This yields a stable emulsion, and polymerization takes place in the micelles of the emulsifier. Polymerization is carried out in ten times the amount of water with audition of twice the amount of a 2 % aqueous emulsifier, all related to the monomer used. The most suitable redox system for this scope is potassium persulfate and silver nitrate which gives high polymer yields of maximum molecular weight. All a-methyl-acrolein polymers obtained contain 65-70 % aldehydic groups, while for polyacrolein prepared in the same redox systems this figure is 20-70 %. This is due to the methyl group in the side chain of the a-methyl acrolein molecule, which prevents the

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KOTON, M.M.; ANDREYEVA, I.V.; ANDREYEV, P.P.; DANILOV, L.G.; ROGOZINA, E.M.

Reactions of an aqueous solution of polyacrolein with inorganic salts. Dolk. AN SSSR 146 no.3:608-610 S 162. (MIRA 15:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. 2. Chlenkorrespondent AN SSSR (for Koton). (Acrolein) (Salts) (Macromolecular compounds)

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101410002-2

KOTON, M.M.; ANDREYEVA, I.V.; GETMANCHUK, Yu.P.

Polymerization of meta-acrolein with anion catalysts. Dokl. AN SSSR 155 no. 4:836-838 Ap 164. (MIRA 17:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Koton).

ANDREYEVA, I.V.; ANDREYEV, P.F., DANILOV, L.T.; ROGOZINA, E.M.

Processes and products of the in raction of high-molecular weight compounds with inorganic alts. Part 3: Reaction of aqueous solutions of polyacrolei. Radiokhimiis 6 no. 1: 86-93 '64. (MIRA 17:6)

ACCESSION NR: AP4020057

5/0186/64/006/001/0086/0093

AUTHOR: Andreyeva, I. V.; Andreyev, P. F.; Danilov, L. T.; Rogozina, E. M.

TITLE: Processes and products of reaction of high molecular compounds with inorganic salts

SOURCE: Radiokhimiya, v. 6, no. 1, 1964, 86-93

TOPIC TAGS: polyacrolem inorganic salt reaction, polyacrolem reaction, polyvinylalcohol, coagulation, gel formation, metal precipitation, variable valence metal reduction, polyaldehyde, hydrated aldehyde group, thorium polyacrolem complex

ABSTRACT: In continuation of earlier work on polyacrolein and its ability to extract metals from aqueous solutions, a number of reactions were run or attempted between 3% polyacrolein and 3% mineral salt solutions. Aqueous solutions of polyacrolein have a series of characteristic properties explained by the presence of an external hydrate shell and hydrated aldenyde groups for the polymeric molecule:

ACCESSION NR: AP4020057

acid medium. The complexes formed have constant compositions, differing depending on pH of the media: in acid solution one thorium atom is complexed with 24 or 28 elementary ligand links; at pH 4.73 and 8.32, with 8 and 9 linkages regardless of the ratio of the reactants. Reaction with potassium bicnromate and ammoniacal solution of hydrated copper oxide gives, as do polyvinylalcohol solutions, gels which are insoluble in water. The structure of the polyacroleinhydrated copper oxide complex may be represented by getation of polyvinylalcohol. Preliminary data obtained indicates that elements with variable valence can be reduced with aqueous polyacrolein solutions under determined conditions. It is therefore assumed that the polyacrolein molecule can react as a polyaldehyde. This capacity of polyacrolem for many chemical and physical-chemical conversions makes it a theoretically and practically interesting material. Orig. art. has: 4 tables, 7 formulas, and 1 figure.

ASSOCIATION: None

SUBMITTED: 15Sept2 SUB CODE: MT, GC

DATE ACQ: 31Mar64 NO REF SOV: 003

ENCL: 00 OTHER: 005

Cord3/3

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101410002-2

	L 16088-65 EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-4/Pr-4/Ps-4 RPL/ASD(m)=3/
	ACCESSION NR: AP4049923 S/0020/64/159/003/0602/0504
	AUTHOR: Koton, M. H. Corresponding member AN SSSR); Andreveve. I. V. J. Turbine, A. I.; Sinyavekiy, V. G.
155 1111 1	TITLE: Polymerization of o-hydroxyphenyl vinyl ketone
	SOURCE: AN SSSR. Doklady*, v. 159, no. 3, 1964, 602-604
	TOPIC TAGS: chelate polymer, o-hydroxyphenyl vinyl ketone, polymer, metal chelate copolymer, methyl methacrylate, divinylbenzene
2	ABSTRACT: The conditions of the radical polymerization of o-hydroxy- phenyl vinyl ketone were studied in an effort to obtain polymers con- taining chelate groups by direct polymerization or copolymerization. The o-hydroxyphenyl vinyl ketone and the o-hydroxyphenyl vinyl vinyl ketone and the o-hydroxyphenyl vinyl vinyl ketone and the o-hydroxyphenyl vinyl
	was polymerized in a nitropen attractor attrac
	azobisisobutyronitrile were used as initiators. The polymerization
	like polymer is soluble in some organic solvents, such as benzene, Card 1/3
L	

L 16088-65 ACCESSION NR: AP4049923

acetone, pyridine, or dimethylformamide, and in dilute alkalis; it is insoluble in methanol, carbon tetrachioride, or ethyl ether. The molecular weight of 125,000 was determined by the light-dispersion method. The intrinsic viscosity of polymers depends on the method of obtaining them. The lowest values were obtained for the product polymerized in solution; the highest, in suspension. The kinetics of the polymerization were studied, and the curves and the constants were obtained. The IR spectra confirm that polymerization takes place only along the double bonds. The crime derivatives confirm the presence of the theoretical number of carbonyl groups in the polymers obtained. Products of copolymerization of o-hydroxyphenyl vinyl ketone with methyl methacrylats or divinylbenzene were also obtained; the latter product has ion-exchange properties. The presence of chelate groups in the polymers studied makes it possible to use these polymers or copolymers for obtaining polymeric complexes with metals. Orig. art. has: 1 formula, 2 tablet, and 2 figures.

ASSOCIATION: Institut vy*sokomolekulyarnykh soyedineniy Akademii nauk SSSR (Institute of Macromolecular Compounds, Academy of Sciences, SSSR)

Card 2/3

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101410002-2

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RAVIN, V.K.; ANDREYEVA. I.V.

Inactivation of the phage genome λ by acridine dyes following infection with Escherichia coli K12S. Mikrobiologiia 33 no.5: 819-823 S-0 '64. (MIRA 18:3)

1. Institut biofiziki AN SSSR.

ANDREYEVA, I.V.; ROGOZINA, E.M.; ANDREYEV, P.F.

Processes and products of the reaction of high-molecular compounds with inorganic salts. Part 5: Physicochemical studies of the reaction of polyacrolein with inorganic salts. Radiokhimia 7 no.1:83-90 165. (MIRA 18:6)

RAVIN, V.K.; AMDICIYEVA, I.V.

Effect of ultraviolet irradiation on the temperate phage-tacterium complex in various stages after its formation. Mikrobiologiia 34 no.1:110-113 Ja-F '65. (MIRA 18:7)

1. Institut biologicheskoy fiziki AN SSSR i Institut mikrobiologii i epidemiologii imeni N.F. Gamalei AMN SSSR.

GERSHANOVICH, V.N.; BURD, G.I.; ANDREYEVA, I.V.; ZUYEV, V.A.

Effect of phage T2 "ghosts" on the synthesis of inducible betagalactosidase in Escherichia coli B cells. Biokhimiia 30 no.2: 395-406 Mr-Ap '65. (MIRA 18:7)

l. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR, Moskva.

ANDREYEVA, I.V.; XESHISTAN, G.O.; ANDREYEV, P.F.; DANILOV, L.T.

Processes and products of the reaction of macromolecular compounds with inorganic salts. Part 4: Reaction of aqueous solutions of polyacrolein with tannin and gelatin in salt solutions. Radiokhimita 6 no.4:491-493 '64.

(MIRA 18:4)

"APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000101410002-2

ACC NRIAPGU34385 SOURCE CODE: UR/0402/65/000/005/0573/0578 AUTHOR: Ravin, V. K.; Andreyeva, I. V. ORG: Institute of Biophysics, AN SSSR (Institute biologicheskoy fiziki AN SSSR); Institute of Epidemiology and Microbiology im. N. F. Gamalei, AMN. SSSR, Moscow (Institut epidemiologii i mikrobiologii AMN SSSR) TITLE: A mutant or A bacteriophage resistant to acridine orange SOURCE: Voprosy virusologii, no. 5, 1966, 573-578 TOPIC TAGS: virology, cytology, immunology, bacteriophage, DNA desexyrlbenuelete-acid-ABSTRACT: A mutant of λ bacteriophage resistant to acridine orange both within and outside the cell was obtained from cultures of E. coli K 121. The mutant was serologically identical to wild-type phage. No differences were noted between strains in lysogenic capacity, sensitivity to ultraviolet <u>Card 1/2</u> UDC: 576.856.9-095.57.097.22:615.778.292

CIA-RDP86-00513R000101410002-2 "APPROVED FOR RELEASE: 03/20/2001

AUTHORS:

Yefremov, G.V., Andreyeva, I.Yu.

54-10-2-12/16

TITLE:

The Co-Precipitation of Thallium and Cadmium Sulfide

(Soosazhdeniye talliya s sul'fidom kadmiya)

PERIODICAL:

Vestnik Leningradskogo Universiteta, Seriya fiziki i

, 1958, Vol.10, Nr 2, pp. 117-121 (USSR)

ABSTRACT:

I.P. Alimarin (Ref 1) and other authors showed that cadmium sulfide is a good collector for microgram quantities of thallium. In view of the quantities of thallium that are usually lost in production and because of the difference in the conditions of coprecipitation, the authors studied the co-precipitation of thallium with cadmium sulfide. Final determination was carried out according to the calorimetric method by the application of methyl violet after oxidation of the thallium by bromine water. Under prevailing conditions the ions [CdBr] and [CdCl] are formed, which, according to data supplied by N.T. Voskresenskaya (Ref 4) form compounds with vat dyes and thereby render the determination of thallium difficult. It was found by an investigation of this development that if up to 75 milligrams of cadmium are present, the influence exercised by the ion $[CdBr_L]$ is so small that it is hardly

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The Co-Precipitation of Thallium and Cadmium Sulfide

54-10-2-1 2/16

manifested at all in results obtained, nor was thallium determination influenced in any way by the presence of the ion [CdCl] "under the same conditions. Average values of the precipitation percentage of thallium for different correlations of thallium, cadmium, and pH solution are given (table 1). It may be seen from this table that the highest co-precipitation percentage is found at pH 5-5,6. Both an increase and a reduction of pH, conditions otherwise remaining the same, leads to a reduction of the percentage. Precipitation of sulfide was, in the case of all previous experiments, carried out at a temperature of 70-80°. At lower temperatures precipitation is finely dispersed, and therefore co-precipitation of thallium increases. At low precipitation temperatures (20°) the coagulation of the precipitation is made difficult. For a long time it remains in the form of sol (table 3). In the case of repeated precipitation of cadmium sulfide thallium can practically be fully eliminated. The values obtained show that the coprecipitation of thallium with cadmium sulfide takes place mainly at the expense of surface adsorption. There are 7 tables, and 4 references, all of which are Soviet.

SUBMITTED:

December 25, 1957

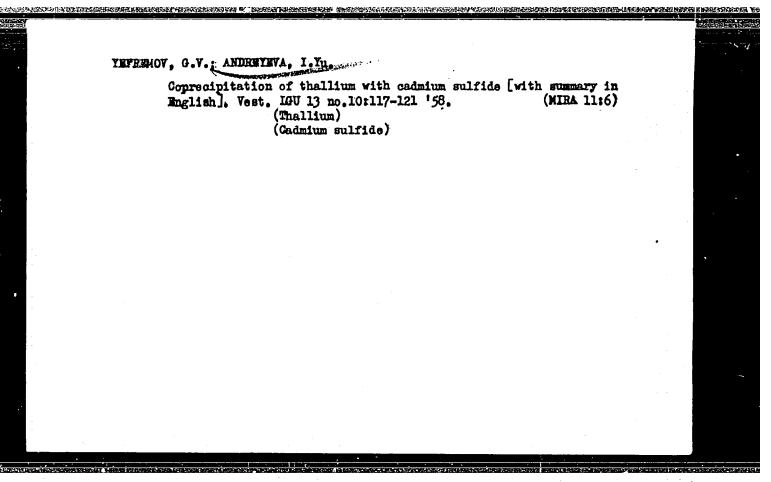
AVAILABLE:

Library of Congress

Card 2/2

- 1. Thallium—Precipitation 2. Cadmium sulfide—Precipitation
- 3. Thallium-Determination 4. Cadmium sulfide-Determination

5. Colorimetry-Applications



s/032/60/026/012/012/036 B020/B056

AUTHORS:

Fratkin, Z. G. and Andreveya Invite

TITLE

The Spectroscopic Analysis of Impurities in High-purity

Sulfur

PERIODICAL:

Zavodskaya laboratoriya, 1960, Vol. 26, No. 12,

pp. 1370-1371

TEXT: Two methods of determining the purity of high-purity sulfur by means of spectrum analysis were worked out, namely the direct spectroscopic determination and the determination with previous enrichment of the sample. Work in this field was carried out by A. N. Bronshteyn and L. M. Ivantsov (Ref. 1). In the case of the first method, the standards were prepared in such a manner that the elements Fe, Co, Cu, Ag to be determined were mixed, as sulfides together with sulfur into a jasper- or agate mortar, and aluminum was introduced as Al₂O₃. The spectra were recorded by means of the spectrograph NCN-28 (ISP-28). As exciter, an a.c. are with an amperage of 7 a was used. The sample was pressed into the channel of the lower carbon electrode, whose diameter was 3 mm and whose depth was 4 mm. The upper Card 1/4